IN THE CLAIMS:

The text of all pending claims (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with <u>underlining</u> and deleted text with <u>strikethrough</u>. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1-2, 5-6, and 9-10, and ADD new claim 17in accordance with the following:

- 1. (CURRENTLY AMENDED) An eye tracking apparatus for detecting an eye in <u>a</u> <u>plurality of pieces of image data, which are</u> obtained in chronological order by picking up images of a face, and tracking the detected eye, comprising:
 - a threshold storing unit for storing a threshold;
 - a tracking area storing unit for storing a tracking area; and
 - a controller, capable of performing operations of

identifying a first area of an eye in a piece of image data;

causing the tracking area storing unit to store the identified <u>firstfist</u> area as <u>thea</u> tracking area;

identifying a second area of an eye in <u>one of the pieces of image data</u> subsequent to <u>another of the pieces of the image data obtained in chronological order, on the basis of the tracking area stored in the tracking area storing unit;</u>

calculating a correlation value between the tracking area and the second area; and

comparing the calculated correlation value with the threshold stored in the threshold storing unit;

wherein the tracking area storing unit stores the second area identified by the controller as <u>thea</u> tracking area when a comparison result by the computer indicates that the correlation value is larger than the threshold.

2. (CURRENTLY AMENDED) The eye tracking apparatus according to Claim 1, wherein the controller identifies thea second area, which is near in a proximity area of the tracking area, in the one of the pieces of subsequent image data subsequent to the another of the pieces of image data obtained in chronological order.

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- 3. (ORIGINAL) The eye tracking apparatus according to Claim 1, wherein the controller is further capable of extracting characteristic data of the tracking area and the second area, and calculates a correlation value between the characteristic data of the extracted tracking area and the characteristic data of the extracted second area.
- 4. (ORIGINAL) The eye tracking apparatus according to Claim 1, wherein the controller is further capable of detecting a change between the tracking area and the second area, and the tracking area storing unit stores the second area as a tracking area when the controller detects a change.
- 5. (CURRENTLY AMENDED) An eye tracking apparatus for detecting an eye in <u>a</u> <u>plurality of pieces of image data, which are</u> obtained in chronological order by picking up images of a face, and tracking the detected eye, comprising:

threshold storing means for storing a threshold;

first identifying means for identifying a first area of an eye in <u>a piece of image</u> data; tracking area storing means for storing the <u>firstfist</u> area identified by the first identifying means as a tracking area;

second identifying means for identifying a second area of an eye in <u>one of the pieces of</u> image data subsequent to <u>another of the pieces ofthe</u> image data <u>obtained in chronological</u> <u>order, on the basis of the tracking area stored in the tracking area storing means;</u>

calculating means for calculating a correlation value between the tracking area and the second area; and

comparing means for comparing the correlation value calculated by the calculating means with the threshold stored in the threshold storing means;

wherein the tracking area storing means stores the second area identified by the second identifying means as <u>thea</u> tracking area when a comparison result by the comparing means indicates that the correlation value is larger than the threshold.

- 6. (CURRENTLY AMENDED) The eye tracking apparatus according to Claim 5, wherein the second identifying means identifies thea second area, which is nearin a proximity area of the tracking area, in the one of the pieces of subsequent image data subsequent to the another of the pieces of image data obtained in chronological order.
 - 7. (ORIGINAL) The eye tracking apparatus according to Claim 5, further comprising

extracting means for extracting characteristic data of the tracking area and the second area, wherein the calculating means calculates a correlation value between the characteristic data of the tracking area extracted by the extracting means and the characteristic data of the second area extracted by the extracting means.

- 8. (ORIGINAL) The eye tracking apparatus according to Claim 5, further comprising change detecting means for detecting a change between the tracking area and the second area, wherein the tracking area storing means stores the second area as a tracking area when the change detecting means detects a change.
- 9. (CURRENTLY AMENDED) An eye tracking method for detecting, with a computer, an eye in <u>a plurality of pieces of image data, which are obtained in chronological order by picking up images of a face, and tracking the detected eye, the method comprising steps of:</u>

storing a threshold;

identifying a first area of an eye in a piece of image data;

storing the identified first area as a tracking area;

identifying a second area of an eye in <u>one of the pieces of image</u> data subsequent to <u>another of the pieces of the image</u> data <u>obtained in chronological order</u>, on the basis of the tracking area;

calculating a correlation value between the tracking area and the second area; comparing the calculated correlation value with the threshold; and storing the second area as thea tracking area when a comparison result indicates that the correlation value is larger than the threshold.

10. (CURRENTLY AMENDED) A computer memory product having computer readable program means for causing a computer to detect an eye in <u>a plurality of pieces of</u> image data, <u>which are</u> obtained in chronological order by picking up images of a face, and to track the detected eye, said program code means comprising:

program code means for causing the computer to store a threshold;

program code means for causing the computer to identify a first area of an eye in <u>a piece</u> of image data;

program code means for causing the computer to store the identified first area as a tracking area;

program code means for causing the computer to identify a second area of an eye in one

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of the pieces of image data subsequent to <u>another of the pieces of the image data obtained in chronological order</u>, on the basis of the tracking area;

program code means for causing the computer to calculate a correlation value between the tracking area and the second area;

program code means for causing the computer to compare the calculated correlation value with the threshold; and

program code means for causing the computer to store the second area as <u>thea</u> tracking area when a comparison result indicates that the correlation value is larger than the threshold.

11. (ORIGINAL) An eye state judging apparatus for detecting an eye in image data obtained by picking up an image of a face and judging an open/close state of the detected eye, comprising a controller capable of performing operations of:

identifying an eye area in the image data; detecting the shape of a lid in the identified eye area; and judging an open/close state of the eye on the basis of the detected shape of the lid.

- 12. (ORIGINAL) The eye state judging apparatus according to Claim 11, wherein the controller is further capable of calculating a function which indicates the shape of the lid, and judges the open/close state of the eye on the basis of the calculated function.
- 13. (ORIGINAL) An eye state judging apparatus for detecting an eye in image data obtained by picking up an image of a face and judging an open/close state of the detected eye, comprising:

identifying means for identifying an eye area in the image data;

lid detecting means for detecting the shape of a lid in the eye area identified by the identifying means; and

judging means for judging an open/close state of the eye on the basis of the shape of the lid detected by the lid detecting means.

14. (ORIGINAL) The eye state judging apparatus according to Claim 13,

wherein the lid detecting means includes function calculating means for calculating a function which indicates the shape of the lid, and

the judging means judges the open/close state of the eye on the basis of the function calculated by the function calculating means.

15. (ORIGINAL) An eye state judging method for detecting, with a computer, an eye in image data obtained by picking up an image of a face and judging an open/close state of the detected eye, comprising steps of

identifying an eye area in the image data; detecting the shape of a lid in the identified eye area; and judging an open/close state of the eye on the basis of the detected shape of the lid.

16. (ORIGINAL) A computer memory product having computer readable program code means for causing a computer to detect an eye in image data obtained by picking up an image of a face and to judge an open/close state of the detected eye, said program code means comprising:

program code means for causing the computer to identify an eye area in the image data; program code means for causing the computer to detect the shape of a lid in the identified eye area; and

program code means for causing the computer to judge an open/close state of the eye on the basis of the detected shape of the lid.

17. (NEW) A method of detecting and tracking an eye in image data obtained from chronological images of a face, the method comprising:

identifying a first area of an eye as a tracking area;

identifying a second area of an eye in image data obtained subsequently to the stored tracking area according to the stored tracking area;

calculating a correlation value between the tracking area and second area; and storing the second area as the tracking area when the correlation value is larger than a stored threshold.